



The better green building board



PalmEco™ Master
Multipurpose, great value

PalmEco™ Master board

PalmEco™ Master board is the new building board that delivers four performance advantages – high fire resistance, high moisture resistance, superior acoustic properties and high impact performance. This revolutionary and robust building material is ideal for a wide range of applications.

PalmEco™ Master board key facts

PalmEco™ Master board is a versatile Class A1 building board that complies with BS476 Part 4: 1970 and has been tested for strong fire protection performance.




Ceiling

Thickness	6mm, 9mm, 12mm, 15mm, 18mm
Size	1220mm x 2440mm
Fire resistance	BS476 Part 4: 1970 non-combustible
Moisture resistance	Semi-exposed/Resistant to the effects of moisture
Normal dry density (average)	1000kg/m ³
Impact strength	2.5kj/m ²
Flexural strength	14N/mm ²
Acoustic (partition)	40 dB (Rw)
Frame	Framing with any standard timber or steel stud
Finish	- Front face (smooth) - Back face (coarse)
Surface Alkalinity	pH 8-9
Colour	Off-white

Class A1
strong fire protection
performance

PalmEco™ Master board has distinct advantages over other materials:

Material	PalmEco™ Master board	Cement board	Gypsum board	OSB/ Plywood	Plastic panel
Flame resistance	Excellent	Good	Good	Poor	Poor
Water resistance	Excellent	Good	Poor	Poor	Excellent
Fastener strength	Excellent	Poor	Poor	Excellent	Good
Mould resistance	Excellent	Good	Poor	Poor	Good
Insect resistance	Excellent	Good	Good	Poor	Excellent
Environmental friendliness	Excellent	Poor	Poor	Poor	Poor

A close-up photograph of bright orange and yellow flames, representing fire resistance.

Flame resistant

A high-speed photograph of water splashing, with droplets frozen in mid-air, representing water resistance.

Water resistant

A photograph of vibrant green, healthy-looking palm fronds, representing environmental friendliness.

Environmentally friendly

A close-up photograph of numerous green water droplets on a textured surface, representing superior performance.

Superior
performance

EXCELLENT

Ideal for many applications

PalmEco™ Master board is excellent for many applications, including wall and roof linings, partitions, ceilings, flooring, wet room flooring overlays, soffits, canopies, services enclosures, roof sheathing, acoustic underlay, portable and prefabricated buildings.



Flooring

Internal walls and partitions



Key benefits

Ceiling, flooring, roofing, internal walls and partitions

Moisture resistant

PalmEco™ Master board will remain stable and does not degrade even when in contact with constant humidity.

Fast and easy installation

When part of a ceiling system, PalmEco™ Master board can be installed quickly and conveniently using standard fixings and metalwork.

Good thermal and sound insulation

PalmEco™ Master board can enhance thermal and acoustic properties when incorporated as part of a ceiling system.

Light in weight

Lightweight PalmEco™ Master board eases the handling and installation processes and reduces the overall product cost.

Easy installation of E&M services

The void above the PalmEco™ Master board ceiling system is ideal for installing E&M services such as air conditioning ducts and electrical wiring.

Biological and chemical resistance

PalmEco™ Master board is resistant to mould growth, and attack by rodents, insects and most chemicals.

Fire protection

PalmEco™ Master board has excellent fire resisting properties and has been tested to provide up to 60 minutes fire protection for steel and timber frame partitions.

Easy to decorate

PalmEco™ Master board can be easily decorated with wallpaper and paint to achieve a beautiful finish.

Sound installation

Using PalmEco™ Master board as part of a standard timber frame or steel stud partition will provide good sound insulation. Up to 40dB (Rw) soundproofing can be achieved using single layers of 6mm board and cavity infill insulation.

Multiple
applications

Easy to work with



Cutting and sawing

Use a fine toothed saw. For shaped cuts use a pad, key hole or coping saw. Work smooth face up and support the board throughout. A power saw can be used with a tungsten carbide tipped blade. Always use dust extraction and wear suitable PPE.



Nailing

When nailing without pre-drilling, position not less than 12mm from board edge. Galvanised wire nails are recommended. Do not use lost head nails or panel nails in wet areas. Boards can also be stapled.



Drilling

Use a high speed power drill (not hammer type), bits should have HSS tips. When drilling, always support the back of the board to prevent break out.



Screwing

When screwing, do not countersink 6mm boards. Pre-drilling is not always necessary. Use self-drilling/self-tapping screws. Screws should be located a minimum of 12 mm from board edges and 50 mm from board corners. Ribbed head screws are best for achieving a good countersink. Screws should be corrosion resistant.



Fixing

Boards should be supported at maximum 600mm centres and fixed to supports using appropriate fixings at nominal 200 mm centres.



Planing and sanding

The edges of the boards can be planed or smoothed with a surform, rasp or file. Use conventional glass paper for sanding.



Papering

When papering PalmEco™ Master board, size the surface to seal against suction and improve slip, then hang paper or vinyl in the normal way.

Painting

PalmEco™ Master Board can be decorated using conventional paints. Alkali resistant primers are not required. Water and oil based paints can be applied in accordance with paint manufacturer's instructions.



Plastering

PalmEco™ Master board's smooth face finish requires minimal finishing. If flushing jointing is required, use fibre mesh joint tape and standard jointing compounds. Use a wide joint skim to minimise the appearance of lines if decorated. Follow jointing compound manufacturer's recommendations at all times.



Tiling

PalmEco™ Master can be used as tile backing board. For a desirable tiling effect, we recommend to line the whole wall with Master board with stud supports at a standard spacing of 600mm.

Flexible
and convenient

Handling and storage

- Carry boards on edge and do not drop on their corners.
- Store boards under cover on a flat base clear of the ground. If stored on racks, boards should be fully supported across their width at not more than 1m centre.
- Always lift boards off the board below. Never slide board on board or drag the stack as this could mark the surface of the lower board.
- Store boards under cover for protection against inclement weather on a covered dry level ground away from the working area of mechanical plant.
- Boards should be stacked a maximum of 800 mm high on firm level ground. If two or more pallets are stacked, the total stack height must be not more than 3500mm

Health and safety

The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product in a landfill. Waste can be placed in an on-site skip with other general building materials, which should be disposed of by a registered contractor.



Green
and friendly

For more information on our product range:



PalmEco™ Master

Multipurpose, great value



PalmEco™ Fire

Greater fire resistance



PalmEco™ Aqua

Higher water resistance



PalmEco™ Box

Ideal for cabinetmakers



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